ACCELERATOR CONTROL, FUEL & EXHAUST SYSTEM

SECTION

CONTENTS

ZD30DDTi

ACCELERATOR CONTROL SYSTEM	2
Removal and Installation	2
FUEL SYSTEM	3
EXHAUST SYSTEM	4

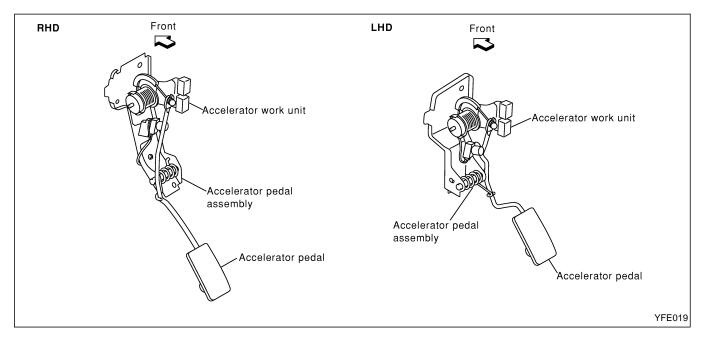
TD27Ti	
ACCELERATOR CONTROL SYSTEM	5
Adjusting Accelerator Cable	5
FUEL SYSTEM	6
Fuel Pump and Gauge	7
EXHAUST SYSTEM	10

Removal and Installation

CAUTION:

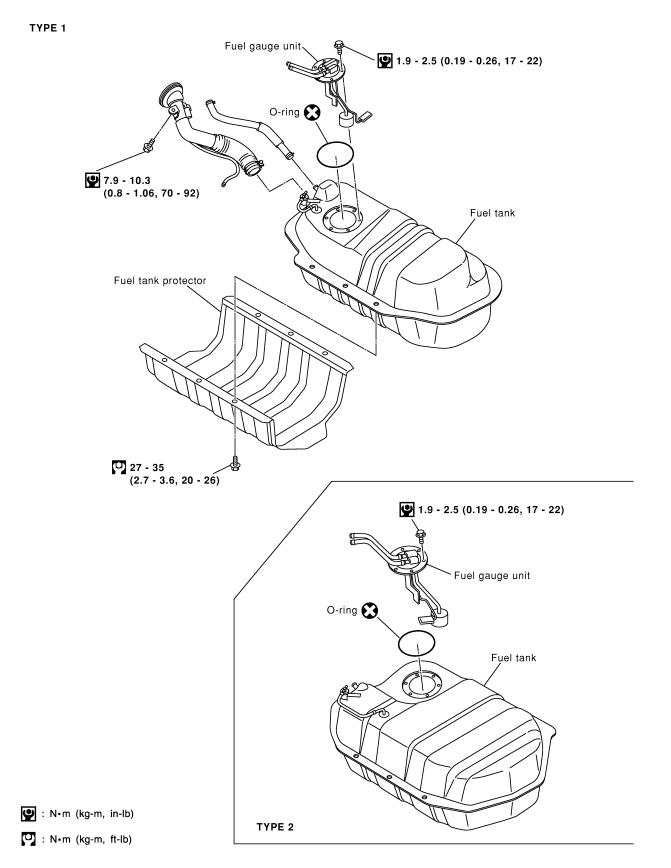
The accelerator wire should be adjusted when removing and replacing any parts of the accelerator control system, shown in the illustration.

- a. Warm up engine to normal operating temperature. Then stop it.
- b. Check to see if throttle valve fully opens when accelerator pedal is fully depressed and if it returns to idle position when released.
- c. Adjust accelerator pedal free play by turning adjusting nut.
- d. Check accelerator control parts for improper contact with any adjacent parts.
- e. When connecting accelerator wire, be careful not to twist or scratch its inner wire.
- f. Apply a light coat of recommended multi-purpose grease to all sliding or friction surfaces. Do not apply grease to wire.
- g. For ASCD wire adjustment, refer to "ASCD Wire Adjustment" in EL section.



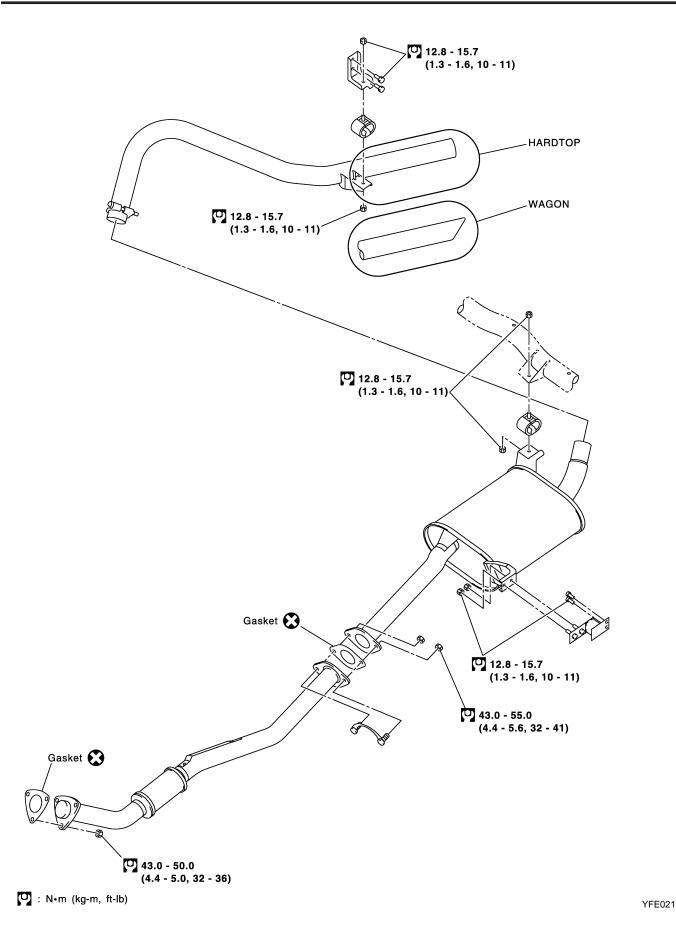
INSPECTION AFTER INSTALLATION

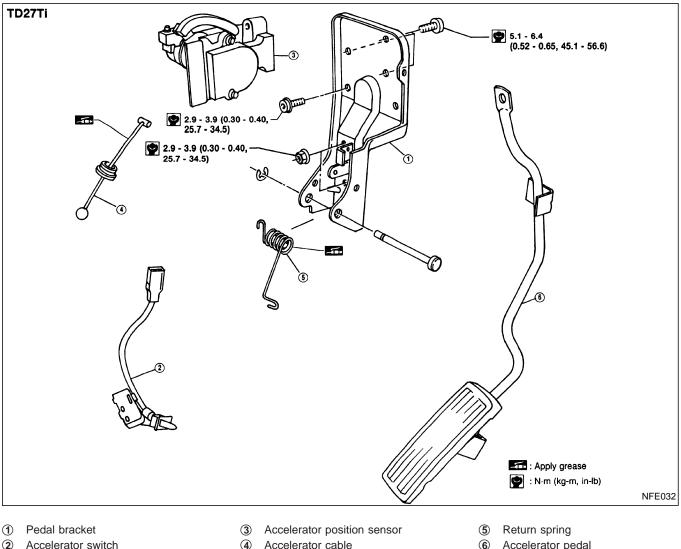
- Check if accelerator pedal moves smoothly within its range.
- Check if accelerator pedal returns securely to its original position.
- Perform "Accelerator Pedal Released Position Learning" when removing the accelerator pedal position sensor harness connector. Refer to "BASIC SERVICE PROCEDURE" in EC section for instructions.



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Adjusting Accelerator Cable

(1)

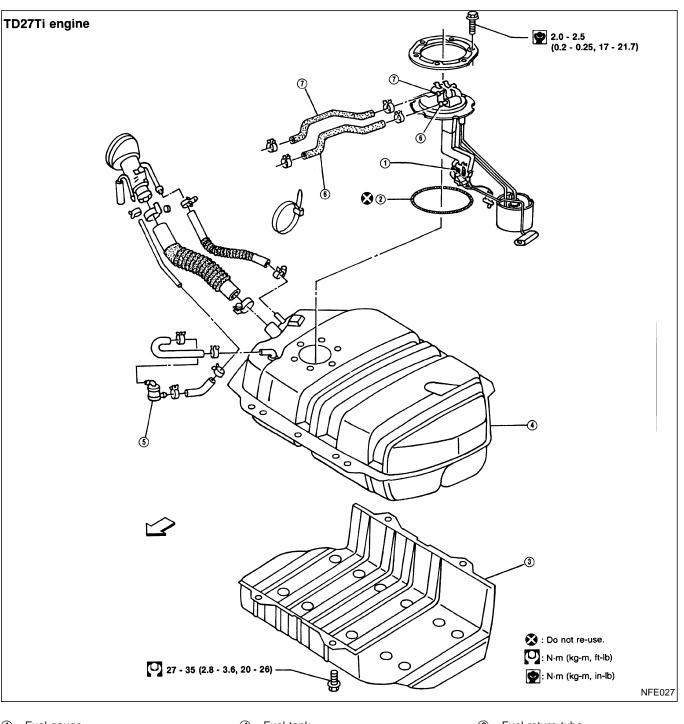
6 Accelerator pedal TD27Ti

INSPECTION AFTER INSTALLATION

- Check if accelerator pedal moves smoothly within its range. •
- Check if accelerator pedal returns securely to its original position.
- Perform "Accelerator Pedal Released Position Learning" when removing the accelerator pedal position • sensor harness connector. Refer to "BASIC SERVICE PROCEDURE" in EC section for instructions.
- If MI illuminates after engine has started, refer to "ON BOARD DIAGNOSTIC SYSTEM DESCRIPTION" in EC section for instructions.

FUEL SYSTEM

TD27Ti



- ① Fuel gauge
- ② O-ring
- ③ Fuel tank protector

- ④ Fuel tank
- (5) Fuel check valve

- 6 Fuel return tube
- ⑦ Fuel feed tube

FE-6

WARNING:

When replacing fuel line parts, be sure to observe the following:

- Display a "CAUTION: INFLAMMABLE" sign in workshop.
- Be sure to furnish workshop with a CO₂ fire extinguisher service.
- Do not smoke while servicing fuel system. Keep open flames and sparks away from work area.
- Be sure to disconnect battery ground cable before conducting operations.
- Pour drained fuel into an explosion-proof container, then ensure container lid is installed securely.
 CAUTION:

• For ECM models, release fuel pressure from fuel line. Refer to EC section ("Fuel Pressure Release", "BASIC SERVICE PROCEDURE").

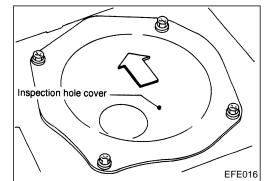
- Do not disconnect any fuel line unless absolutely necessary.
- Plug hose and pipe openings to prevent entry of dust or dirt.
- Always replace top lid seal and hose clamps with new ones.
- Do not kink or twist hoses and tubes during installation.

Fuel return tube

8

Connectors

- Do not tighten hose clamps excessively because this could cause damage to the hose.
- Ensure fuel check valve is installed in the correct orientation.
- Refer to EC section ("FUEL CHECK VALVE", "EVAPORATIVE EMISSION SYSTEM").
- After installation, run engine and check for fuel leaks at connections.



Fuel leed tube

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Fuel Pump and Gauge

REMOVAL

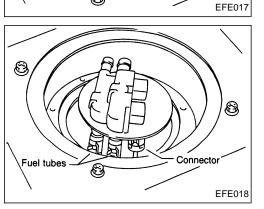
Petrol engine

- Release fuel pressure from fuel line. Refer to EC section ("Fuel Pressure Release", "BASIC SER-VICE PROCEDURE").
- 2. Remove inspection hole cover located under the luggage compartment carpet.
- 3. Remove fuel filler lid.
- 4. Disconnect fuel outlet, return tube and connectors.

CAUTION:

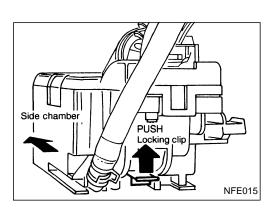
Mark the fuel tubes to ensure correct position during installation.

5. Remove the fuel gauge assembly and disconnect tubes and connector.



B

FUEL SYSTEM



Fuel Pump and Gauge (Cont'd)

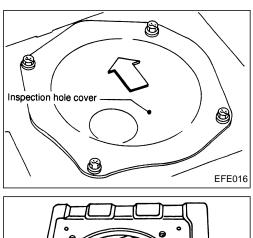
- 6. Remove fuel pump with fuel tank chamber assy as follows:
- a. Push the locking clip upwards and slide the pump chamber assy towards the rear of the vehicle.
- b. Lift the pump chamber assy from the bracket.
- c. Carefully remove the pump chamber assy and top plate from the tank.
- 7. Take off the fuel pump chamber lid by opening out the 4 clips. Remove the fuel pump from the fuel pump chamber.

INSTALLATION

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Installation is reverse procedure of removal. **CAUTION:**

- Always use a new top plate seal.
- Tighten to specified torque.



Fuel return tube

Diesel engine

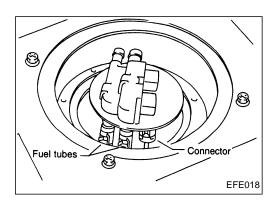
1. Remove inspection hole cover located under the luggage compartment carpet.

- 2. Disconnect fuel feed and return tubes and connector.
- 3. Remove the screws by which the fuel gauge is mounted to the fuel tank.

FUEL SYSTEM

Fuel Pump and Gauge (Cont'd)

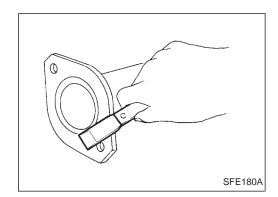
4. Remove fuel gauge assembly.



INSTALLATION

Installation procedure is the reverse order of removal. **CAUTION:**

- Tighten to specified torque.
- Always use a new top plate seal.



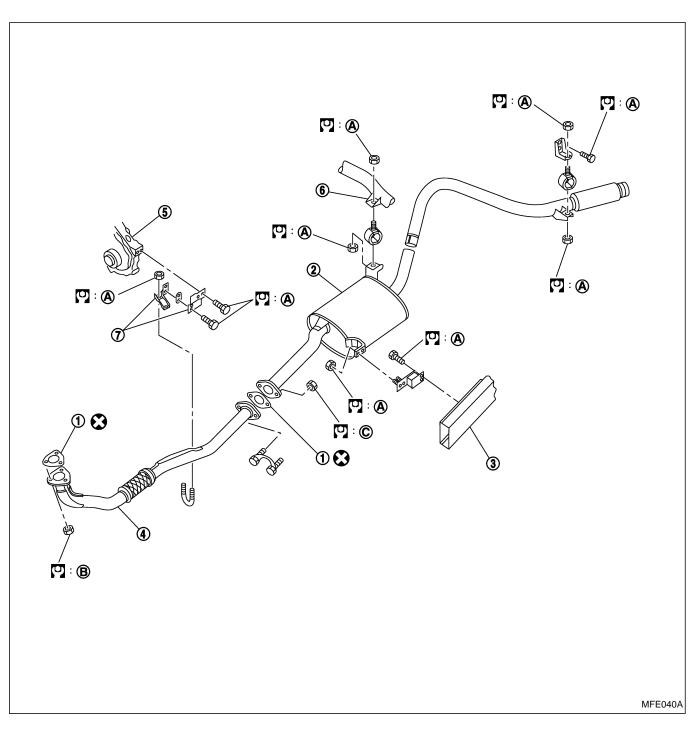
CAUTION:

- Be careful not to drop or damage catalytic converter.
- Never wet catalytic converter with water, oil, etc.
- Always replace exhaust gaskets with new ones when reassembling.

If gasket is left on flange surface, scrape off complete as shown at left.

- With engine running, check all tube connections for exhaust gas leaks, and entire system for unusual noises.
- After installation, but before fully tightening exhaust joints, check to ensure that mounting brackets and mounting insulators are free from undue stress. If any of the above parts are not installed properly, excessive noise or vibration may be transmitted to the vehicle body.

EXHAUST SYSTEM



- 1 Gasket
- Muffler assembly 2
- 3 Frame
- Front tube 4
- (5) Transfer case

- (6) Crossmember
- Support bracket (Wagon models 7 only)
- A: Tightening torquesA: 13 16 N·m

(1.3 - 1.6 kg-m, 9 - 12 ft-lb)

TD27Ti

- (B): 43 50 N⋅m
- (4.4 5.1 kg-m, 32 37 ft-lb) ©: 43 - 50 N·m
- (4.4 5.1 kg-m, 32 37 ft-lb)

NOTES